

Title (en)

MAGNETICALLY MANEUVERABLE IN-VIVO DEVICE

Title (de)

MAGNETISCH STEUERBARE IN-VIVO-VORRICHTUNG

Title (fr)

DISPOSITIF IN VIVO POUVANT ÊTRE MANUVRÉ PAR VOIE MAGNÉTIQUE

Publication

**EP 2648599 A2 20131016 (EN)**

Application

**EP 11847504 A 20111208**

Priority

- US 42093710 P 20101208
- US 201161491383 P 20110531
- IL 2011000930 W 20111208

Abstract (en)

[origin: US2012149981A1] An in-vivo device includes a magnetic steering unit (MSU) to maneuver it by an external electromagnetic field. The MSU may include a permanent magnets assembly to produce a magnetic force for navigating the device. The MSU may include a magnets carrying assembly (MCA) to accommodate the permanent magnet(s). The MCA may be designed to generate eddy currents, in response to AC magnetic field, to apply a repelling force. The in-vivo device may also include a multilayered imaging and sensing printed circuit board (MISP) to capture and transmit images. The MISP may include a sensing coil assembly (SCA) to sense electromagnetic fields to determine a location/orientation/angular position of the in-vivo device. Data representing location/orientation/angular position of the device may be used by a maneuvering system to generate a steering magnetic field to steer the in-vivo device from one location or state to another location or state.

IPC 8 full level

**A61B 1/00** (2006.01)

CPC (source: EP US)

**A61B 1/00158** (2013.01 - EP US); **A61B 1/041** (2013.01 - EP US); **A61B 5/062** (2013.01 - EP US); **A61B 34/73** (2016.02 - EP US)

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DOCDB simple family (publication)

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